

METHODS USING ELECTROPHORETICALLY  
DEPOSITED PATTERNABLE MATERIAL

Abstract of the Disclosure

5 Methods for use in the production of a display include providing a substrate assembly of a face plate of the display including a conductive surface at a first side thereof. One or more projections extend from the first side of substrate assembly. A patternable material, e.g., electrophoretically depositable resist, is electrophoretically deposited on at least the conductive surface and adjacent the 10 projections, e.g., spacers such as nonconductive spacers or spacers that have at least portions thereof that are slightly conductive. The method may further include patterning the patternable material for use in deposition of light emitting elements on the conductive surface. Light emitting elements of one or more colors may be formed. In addition, the substrate assembly including the conductive surface may 15 have one or more nonconductive regions formed on the conductive surface; the one or more nonconductive regions having a predetermined thickness. A layer of patternable material is formed by electrophoresis over the conductive surface and over the one or more nonconductive regions. Such patternable material may then be patterned and used in formation of light emitting elements. Further, structures used 20 in the production of a face plate of a display are also provided.

25 \*EXPRESS MAIL\* MAIL-N-1 LABEL NUMBER EL 888271081 US

DATE OF DEPOSIT 9 November 2001  
I HEREBY CERTIFY THAT THIS PAPER OR FEE IS BEING DEPOSITED WITH THE  
UNITED STATES POSTAL SERVICE "EXPRESS MAIL POST OFFICE TO ADDRESSEE"  
SERVICE AT CLEVELAND, OHIO ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO  
THE ASSISTANT COMMISSIONER FOR PATENTS BOX PATENT APPLICATION,  
WASHINGTON, D.C. 20231

PRINTED NAME Jacquelyn K. Törborg  
SIGNATURE Jacquelyn K. Törborg